

PHOTODYNAMIC THERAPY FOR LOCAL ADIPOCYTE REDUCTION

## ABSTRACT

1           The present invention is drawn to methods and compounds for transcutaneous  
2 photodynamic therapy ("PDT") of target adipocyte cells or adipose tissue in a  
3 mammalian subject, which includes administering to the subject a therapeutically  
4 effective amount of a photosensitizing agent or a photosensitizing agent delivery system  
5 or a prodrug, where the photosensitizing agent or photosensitizing agent delivery system  
6 or prodrug selectively binds to the target tissue; and irradiating at least a portion of the  
7 subject with light at a wavelength absorbed by the photosensitizing agent or if prodrug,  
8 by a prodrug product thereof, where the light is provided by a light source, and where the  
9 irradiation is at low fluence rate that results in the activation of the photosensitizing agent  
10 or prodrug product. These methods of transcutaneous PDT are useful for the reduction of  
11 adipose tissue and adipocytes.